I. AMENDMENTS TO THE CLAIMS

Please enter the claim amendments specified below into the file of this Application. A complete listing of all claims in the Application is provided below along with each claim's status, which is indicated in a parenthetical expression after each claim number. Deleted matter is indicated by strike-out text and added matter is indicated by underlined text.

- 1. (currently amended) A method for expanding the mode-field diameter of an optical fiber comprising heating an end of the optical fiber to a temperature within a range of about 500 °C to about 2000°C.
- 2. (original) The method of claim 1, wherein the optical fiber is a dispersion compensating fiber.
- 3. (currently amended) The method of claim 1, wherein the fiber is heated for a period within a range of about 1 to about 40 minutes.
- 4. (currently amended) The method of claim 1, wherein the fiber is heated for a period within a range of about 10 to about 30 minutes.
- 5. (original) The method of claim 1, wherein the fiber is adapted to be spliced to a second optical fiber having a larger mode field diameter with a splice loss of from about 0.05 dB to about 0.3 dB.
- 6. (original) The method of claim 1, wherein the fiber has an adiabatic taper of from about 1 mm to about 6 mm.
- 7. (original) The method of claim 1, wherein heating the end of the optical fiber comprises applying heat generated by a fuel source, wherein the fuel source comprises an organic liquid.
- 8. (original) The method of claim 7, wherein the organic liquid comprises an alcohol.

- 9. (original) The method of claim 7, wherein the organic liquid comprises an alcohol of six or fewer carbons and having only one hydroxyl group.
 - 10. (original) The method of claim 7, wherein the organic liquid comprises methanol.
- 11. (currently amended) A method of splicing a first optical fiber having a smaller mode-field diameter to a second optical fiber having a larger mode field diameter comprising:
- (a) heating the end of the first optical fiber having the smaller mode field diameter to a temperature within a range of about 500 °C to about 2000°C to expand the mode field; and
- (b) abutting the end of the expanded mode field fiber with the end of the second optical fiber having the larger mode field diameter.
- 12. (original) The method of claim 11, wherein the first optical fiber having the smaller mode field diameter is a dispersion compensating fiber.
- 13. (currently amended) The method of claim 11, wherein the fiber is heated for a period within a range of about 1 to about 40 minutes.
- 14. (currently amended) The method of claim 11, wherein the fiber is heated for a period within a range of about 10 to about 30 minutes.
- 15. (currently amended) The method of claim 11, wherein the fiber is adapted to be spliced to a-the second optical fiber having a-the larger mode field diameter with a splice loss of from about 0.05 dB to about 0.3 dB.
- 16. (original) The method of claim 11, wherein the fiber has an adiabatic taper of from about 1 mm to about 6 mm.
- 17. (original) The method of claim 11, wherein heating the end of the optical fiber comprises applying heat generated by a fuel source, wherein the fuel source comprises an organic liquid.

- 18. (original) The method of claim 17, wherein the organic liquid comprises an alcohol.
- 19. (original) The method of claim 17, wherein the organic liquid comprises an alcohol of six or fewer carbons and having only one hydroxyl group.
- 20. (original) The method of claim 17, wherein the organic liquid comprises methanol.
- 21. (currently amended) A method for expanding the mode-field diameter of an optical fiber comprising heating the optical fiber to a temperature within a range of about 500 °C to about 2000°C by applying heat to the optical fiber generated by a fuel source, wherein the fuel source comprises an organic liquid.
- 22. (original) The method of claim 21, wherein the optical fiber is a dispersion compensating fiber.
- 23. (currently amended) The method of claim 21, wherein the fiber is heated for a period within a range of about 1 to about 40 minutes.
- 24. (currently amended) The method of claim 21, wherein the fiber is heated for a period within a range of about 10 to about 30 minutes.
- 25. (original) The method of claim 21, wherein the organic liquid comprises an alcohol.
- 26. (original) The method of claim 21, wherein the organic liquid comprises an alcohol of six or fewer carbons and having only one hydroxyl group.
- 27. (original) The method of claim 21, wherein the organic liquid comprises methanol.